

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~An apparatus wireless mobile phone~~ comprising:
 - ~~a plurality of components coupled to each other configured to facilitate wireless telephony communication by a user;~~
 - a power on/off button to power on/off the apparatus, including an input mechanism configured to facilitate input of a finger print of ~~at~~ the user, comprising one or more capacitors, and one or more sensors coupled to the one or more capacitors to sense electrical interactions with the user's finger, and to output signals indicating the user's fingerprint; and
 - an operating logic configured to receive the output signals from the input mechanism, and to operate the plurality of components in a first mode if the user is not successfully authenticated based at least on the output signals, wherein a first plurality of user functions are available in the first mode; and the operating logic is further configured to operate the plurality of components in a second mode if the user is successfully authenticated based at least on the output signals, and to switch from the second mode to the first mode responsive to a user instruction;
 - wherein a first plurality of user functions are available in the first mode, wherein and a second plurality of user functions comprising at least one or more of the first plurality of user functions are available in the second mode.
2. (Currently Amended) ~~The wireless mobile phone apparatus~~ of claim 1, wherein said input mechanism comprises a light source to emit light, and an array of light sensors to sense the emitted light reflecting off a user's finger.
3. (Currently Amended) ~~The apparatus wireless mobile phone~~ of claim 2, wherein the ~~wireless mobile phone~~ further comprises processing logic associated with the input mechanism to process the reflected light sensed into an input finger print.

4. (Currently Amended) The apparatus ~~wireless mobile phone~~ of claim 1, wherein the operating logic further comprises logic to compare the output signals indicating the finger print against a reference finger print.

5. (Currently Amended) The apparatus ~~wireless mobile phone~~ of claim 1, ~~wherein the wireless mobile phone further comprises~~ a reader to facilitate provision of a reference finger print via an identity card.

6. (Currently Amended) The apparatus ~~wireless mobile phone~~ of claim 5, wherein the reference finger print is stored on said identity card in a manner to be read by a reader selected from the reader group consisting of an electronic reader, an optical reader, and a magnetic reader, and the reader is a corresponding selected one of the electronic reader, the optical reader and the magnetic reader.

7. (Cancelled)

8. (Cancelled)

9. (Currently Amended) ~~In a wireless mobile phone, a~~ A method of operation comprising:

sensing by an apparatus activation of a power on button by a user;

receiving by the apparatus, through said activation, finger print input from the
user, the power on button including input mechanism for the user to input the user's
finger print; comprising sensing electrical interactions of one or more capacitors with the
user's finger by using a plurality of sensors; and

processing by the apparatus the sensed interactions into output signals indicating the received finger print input;

authenticating by the apparatus the user based on at least the output signals
~~indicating the received finger print input;~~

~~operating by the apparatus a plurality of components of the wireless mobile phone apparatus~~ in a first mode ~~to~~, wherein a first plurality of user functions are available while the operating the plurality of components in the first mode, if the user is not successfully authenticated ~~via the output signals indicating the received finger print input of the user;~~ and

~~operating by the apparatus the plurality of components of the wireless mobile phone~~ in a second mode, wherein a second plurality of user functions are available while the operating the plurality of components in the second mode, if the user is successfully authenticated ~~via the output signals indicating the received finger print input of the user;~~ and

~~switching back by the apparatus from the second mode to the first mode responsive to a user instruction;~~

~~wherein the second plurality of user functions comprising at least one or more of the first plurality of user functions.~~

10. (Previously Presented) The method of claim 9, wherein said receiving of finger print input from the user further comprising emitting light using a light source, sensing the emitted light reflecting off the user's finger using a plurality of optical sensors, and processing the reflected light sensed into a finger print input.

11. (Previously Presented) The method of claim 10, wherein the authenticating further comprises comparing the output signals indicating the inputted finger print against a reference finger print.

12. (Original) The method of claim 11, wherein the method further comprises retrieving the reference finger print from an identity card.

13. (Cancelled)

14. (Currently Amended) A wireless mobile phone comprising:

a power on/off button to power the wireless mobile phone on or off, including an input mechanism to capture finger print of a user activating the power on/off button;

a plurality of components coupled to each other configured to facilitate wireless telephony communication by a user, with the components being equipped to operate in at least a selected one of a first mode and a second mode, wherein a first plurality of user functions are available while the components are configured to operate in the first mode, and a second plurality of user functions are available while the components are configured to operate in the second mode; and

operating logic configured to operate the components in said first mode without authentication of the user, and to operate the components in said second mode if the user is successfully authenticated based at least in part on the captured finger print—;

wherein the second plurality of user functions comprising at least one or more of the first plurality of user functions, and the operating logic is further configured to be responsive to a user instruction to switch from the second mode to the first mode.

15. (Cancelled)

16. (Currently Amended) ~~In a wireless mobile phone, a method of operation comprising:~~

sensing by a wireless mobile phone, activation of a power button of a wireless mobile phone by a user;

capturing by the wireless mobile phone, through said activation, finger print of the user;

authenticating by the wireless mobile phone, the user based at least in part on the captured finger print;

operating by the wireless mobile phone, a plurality of components coupled to each other of the wireless mobile phone to facilitate wireless telephony communication by the user, in a first mode, wherein a first plurality of user functions are available while the operating the plurality of components in the first mode, prior to if said authenticating of the user is unsuccessful;

receiving input for authenticating the user; and

operating by the wireless mobile phone, the components in a second mode, wherein a second plurality of user functions are available while the operating the plurality of components in the second mode, if the authenticating of the user is successfully authenticated; and

switching the wireless mobile phone from the second mode to the first mode responsive to a user instruction;

wherein the second plurality of user functions comprising at least one or more of the first plurality of user functions.

17. (Cancelled)

18. (Currently Amended) The wireless mobile phone of claim 14, wherein the plurality of components further comprising optical or capacitive sensors to capture the user's finger print, wherein the second plurality of user functions comprise at least one or more of the first plurality of user functions;

19. (Currently Amended) The method of claim 16, wherein the capturing comprises capturing the user's finger print with optical or capacitive sensors, wherein the second plurality of user functions comprise at least one or more of the first plurality of user functions;

20. (Currently Amended) The wireless mobile phone apparatus of claim 1, wherein the second plurality of user functions comprise at least one or more of the first plurality of user functions, wherein the input mechanism further comprising one or more capacitors, and one or more sensors coupled to the one or more capacitors to sense electrical interactions with the user's finger, and to output signals indicating the user's fingerprint;

21. (Currently Amended) The method of claim 9, wherein the authenticating further comprising authenticating the user's fingerprint with one or more sensors coupled to one or more capacitors to sense electrical interactions with the user's finger, and to output

signals indicating the user's fingerprint, wherein the second plurality of user functions
comprise at least one or more of the first plurality of user functions.